This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:



(Cancelled)

- 2. (Currently Amended) A sample tube assembly incorporating a fluid tight label chamber wherein the tube assembly comprises comprising:
- (i) a tube portion, the having a bottom of which is adapted to accept an end cap; and
- (ii) an end cap adapted to be joined to mountable to the bottom of the tube portion to provide a fluid tight-seal therewith; and
- (iii) a label chamber provided in use <u>defined</u> by a space between the bottom or outer surface of the bottom of the tube portion and the inner surface of the end cap; and wherein, the end cap is fused, welded or otherwise joined to the bottom of the tube portion to provide a fluid tight-seal; and

 (iv) a label having optically readable code located inside the label chamber, a region of the end cap over the label being sufficiently transparent for the optically readable code to be read through the end
- cap.
- 3. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein the tube portion comprises a shoulder formed around the bottom of the tube portion, and the end cap comprises a base and an upstanding sidewall extending substantially around the perimeter of the end cap, the sidewall

having an outermost end edge of the sidewall being adapted to cooperate with a the shoulder formed around the bottom of the tube portion.

4. (Currently Amended) A sample tube assembly as claimed in Claim 2 3 wherein prior to assembly, the sidewall of the end cap incorporates a first ridge extending substantially around the circumference of the sidewall of the end cap.



- 5. (Currently Amended) A sample tube assembly as claimed in Claim 2 4 wherein prior to assembly a the shoulder on the bottom of the tube portion also incorporates a second ridge extending substantially around the circumference of the tube portion.
- 6. (Currently Amended) A sample tube assembly as claimed in Claim 2 5 wherein a the first ridge on the end cap and a the second ridge on the tube portion contact each other when the end cap is placed onto the end bottom of the tube portion.
- 7. (Currently Amended) A sample tube assembly as claimed in Claim 2 6 wherein during the assembly manufacturing process, material in two the contacting first and second ridges is are heated and compressed together to form a fluid tight fluid-tight seal between the tube portion and the end cap.

- 8. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein a shoulder on the end cap includes a ridge and the tube portion incorporates includes a groove or depression adapted to cooperatively engage with a corresponding the ridge on the end edge of the end cap sidewall.
- 9. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein a shoulder on the end cap includes a groove and the tube portion incorporates includes a ridge adapted to co-operatively engage with a corresponding the groove or channel on the end edge of the end cap sidewall.
- 10. (Currently Amended) A sample tube assembly as claimed in Claim 2 8 wherein the <u>ridge of the</u> end cap is a snap fit <u>fits</u> with the <u>bottom groove</u> of the tube portion.
- 11. (Currently Amended) A sample tube assembly as claimed in Claim 2 9 wherein the assembly further comprises a label groove of the end cap snap fits with the ridge of the tube portion.
- 12. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein the assembly further comprises label is a laser etched label.
- 13. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein the assembly further comprises a label which is formed from paper.

- 14. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein the assembly further comprises a label which is formed from a plastics material.
- 15. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein the assembly further comprises a label and wherein the label incorporates optically readable code includes a bar code.



- 16. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein the assembly further comprises a label and wherein the label incorporates the optically readable code includes a binary code.
- 17. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein the assembly further comprises a label and wherein the label incorporates the optically readable code includes an alphanumeric code together with either and at least one of a bar code or and a binary code.
- 18. (Currently Amended) A sample tube assembly as claimed in Claim 2 wherein the end cap is fused to the tube portion using ultrasound ultrasonic welding.
- 19. (Currently Amended) A sample tube assembly according to Claim 2 wherein a region in the end cap over the label is substantially transparent to visible light the optically readable code includes at least one of optically readable shapes and optically readable characters.

- 25. (Currently Amended) A method of constructing a sample tube assembly comprising the steps of:
 - (i) forming a tube portion <u>having a bottom</u>;
 - (ii) forming an end cap for the closed end of the tube;
- (iii) placing a label <u>having optically readable code</u> in the end cap, the optically readable code being readable through a substantially transparent region of the end cap;
 - (iv) placing the end cap onto the bottom of the tube portion and forming a fluid tight fluid-tight seal between the two components such that the label becomes encapsulated in a fluid tight chamber.

26. (Currently Amended) A method of constructing the sample tube assembly as claimed in Claim 25 wherein the two components tube portion and the end cap are fused together using ultrasonic welding to define the fluid-tight seal.

- 27. (Currently Amended) A method of constructing the sample tube assembly comprising the steps of:
 - (i) encapsulating a label having optically readable shapes or characters or other code in a fluid-tight label chamber;
 - (ii) attaching said label chamber to a tube.

28 (Cancelled)

- 29. (New) A sample tube assembly as claimed in Claim 7 wherein the label is a printed label.
- 30. (New) A sample tube assembly as claimed in Claim 8 wherein the groove is an endless groove extending substantially about the circumference of the tube portion.
- 31. (New) 'A sample tube assembly as claimed in Claim 8 wherein the groove-is an endless groove extending substantially about the circumference of the end cap.
- 32. (New) A sample tube assembly as claimed in Claim 2 wherein the end cap has a snap fit with the bottom of the tube portion.



- 33. (New) A sample tube assembly as claimed in Claim 2 wherein the bottom of the tube portion includes a reduced diameter end region that snap fits with the end cap.
- 34. (New) A sample tube assembly as claimed in Claim 2 wherein the label chamber overlies the bottom of the tube portion.